

***Peroxidase-Labeled
Affinity Purified Antibody
To Monkey IgA (α)***

Produced in Goat

Catalog No. Size
074-11-011 1.0 mg



DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with purified Old World monkey IgA was labeled with horseradish peroxidase using a modified periodate method adapted from Farr and Nakane (1).

FORM/STORAGE

Lyophilized. Store at 2-8°C until rehydrated. Stable for a minimum of 1 year when stored at 2-8°C.

STABILIZER AND PRESERVATIVE

Bovine serum albumin (BSA) added as a protein stabilizer. A proprietary antibacterial agent is added as a preservative. DO NOT USE SODIUM AZIDE. Non-sterile.

ANTIBODY CONCENTRATION

The concentration of affinity purified antibody is 1 mg as determined by UV absorbance at 280 nm.

E/P RATIO

Molar enzyme/antibody protein ratio = 2:1

SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with Old World monkey IgA including Rhesus macaque, chimpanzee, orangutan and Cynomolgus monkey. It has also been found to react strongly with baboon. Product has been adsorbed with purified monkey IgG and IgM. Reactivity to IgG subclasses has not been tested. Antibodies to monkey IgA may cross-react with immunoglobulins of other species if common binding sites are shared.

REHYDRATION STORAGE

KPL recommends rehydration with our HRP Conjugate Stabilizer (See RELATED PRODUCTS). This product effectively stabilizes HRP labeled antibodies for extended periods of time at 2-8°C with minimal effect on activity.

Note: Rehydration of antibodies in TBS or buffers other than those listed here is not recommended.

Procedure A: KPL's HRP Conjugate Stabilizer

Rehydration: Rehydrate with 1 ml of KPL's HRP Conjugate Stabilizer. Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with additional HRP Conjugate Stabilizer.

Storage: This product should be stored at 2-8°C. Stable for a minimum of 1 year.

Procedure B: 50% Glycerol

At a working dilution, the level of glycerol is too small to affect most assays. The use of glycerol is not recommended when the conjugate is used in live cell work.

Rehydration: Add 0.5 ml reagent quality water to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Add 0.5 ml glycerol to the product vial. Pipet up and down several times to ensure proper mixing. Dilute to desired concentration with TBS or other buffer.

Storage: This product may be stored either refrigerated or frozen as desired. Stable for a minimum of 1 year.

Procedure C: H₂O

Rehydration: Rehydrate with 1 ml of reagent quality water. Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with TBS or other buffer.

Storage: This product may be stored for up to 1 week refrigerated; thereafter, it should be stored frozen. Stable for a minimum of 1 year at -20°C.

SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in TBS or other buffer such as BSA or Milk Diluent/Blocking Solution (See RELATED PRODUCTS). These buffers not recommended for long term storage. Suggested starting dilutions are as follows.

In many cases, the antibody may be diluted further than indicated.

ELISA:

1:1000 – 1:5000 1.0 µg/ml - 0.2 µg/ml

Blotting:

1:1000 – 1:5000 1.0 µg/ml - 0.2 µg/ml

Histo/Cytochemical Procedures:

1:200 – 1:500 5.0 µg/ml - 2.0 µg/ml

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Disposal via sanitary sewer.

REFERENCES

Farr and Nakane. (1981). J. Immunol. Methods, 47:129-144.

RELATED PRODUCTS

HRP Conjugate Stabilizer	Cat. No. 54-15-01
BSA Diluent/Blocking Solution	Cat. No. 50-61-00
Milk Diluent/Blocking Solution	Cat. No. 50-82-01
Coating Solution Concentrate	Cat. No. 50-84-00
Wash Solution Concentrate	Cat. No. 50-63-00

Suggested KPL Peroxidase Substrates

ELISA:

TMB Microwell Substrate	Cat. 50-76-05
ABTS Microwell Substrate	Cat. 50-66-00

Western Blotting:

TMB Membrane Substrate	Cat. 50-77-03
4 CN Substrate System	Cat. 50-73-00

Immunohistochemistry:

HistoMark [®] TrueBlue	Cat. 54-78-00
HistoMark [®] ORANGE	Cat. 54-74-00
HistoMark [®] BLACK	Cat. 54-75-00

See the KPL catalog for a wide selection of antibodies, substrates, protein and nucleic acid detection kits, and immunohistochemistry reagents.

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